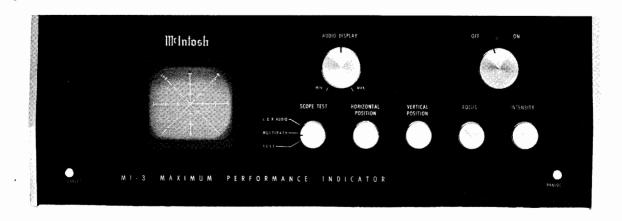
MtIntosh

M1-3

MAXIMUM PERFORMANCE INDICATOR



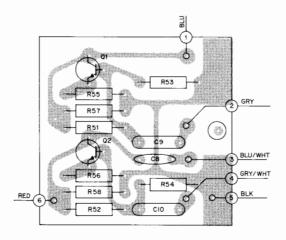
SERVICE INFORMATION

STARTING WITH SERIAL NO. 10E01

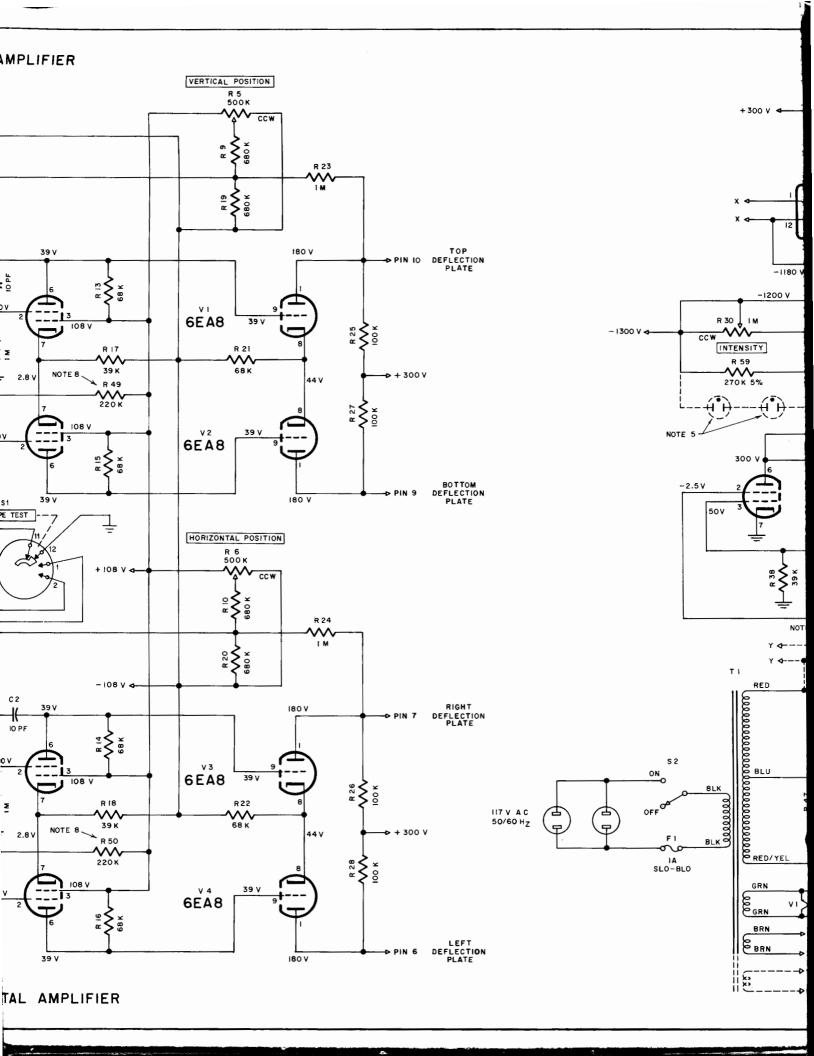
SCHEMATIC NOTES

- 1. Unless otherwise specified: Resistance values are in ohms, 1/2 watt, and 10% tolerance; capacitance values are in microfarads (μF).
- Printed circuit board components are outlined on the schematics by dotted lines. The circled numbers around the dotted lines correspond to the numbers on the PC Board layouts.
- 3. The terminal numbering of rotary switches is for reference only.
- 4. All voltages indicated on the schematics are measured under the following conditions:
 - a. Use of an 11 megohm input impedance VTVM.
 - b. All voltages $\pm 10\%$ with respect to chassis ground.
 - c. No signal at input or antenna terminals.
 - d. AC input at 117 volts, 50/60 Hz.
 - e. Mode selector at test position.
- In units with Serial No's below 10E26, two neon bulbs (McIntosh Part No. 058-002) are used in place of R59.
- 6. In units with Serial No's from 10E26 to 15E00, R60 and R61 are used.
- 7. In units with Serial No's below 13E00, a 6W4 rectifier tube (McIntosh Part No. 165-016) is used in place of SR7.
- 8. In early units, PC Board 043-984 and R49 and R50 are not used. The arm of R48A is connected directly to pin No. 2 of S1 and the arm of R48B is connected directly to C7.

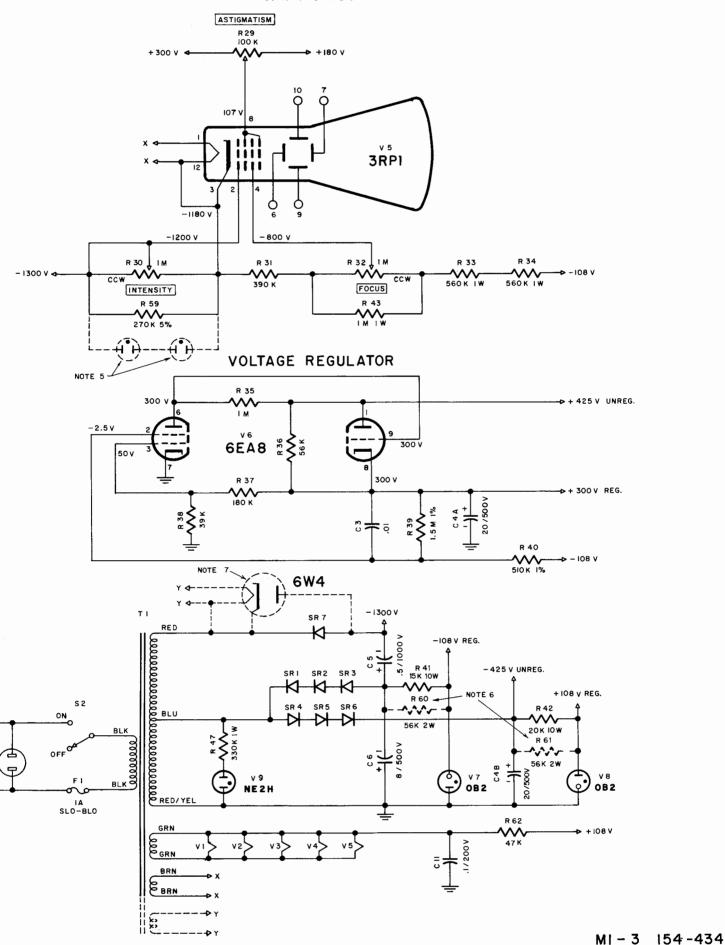
AUDIO DRIVER P.C. BOARD 043-984



VERTICAL AMPLIFIER VERTICAL PO VERTICAL AUDIO POSITION R 46 560 K SIGNAL STRENGTH CALIBRATION SIGNAL STRENGTH (CONNECT TO TPI) 39 V 6EA8 LEFT GAIN LEFT AUDIO INPUT R 17 39 K R 49 220 K 2 6EA8 LEFT AUDIO OUTPUT S 1 SCOPE TEST HORIZONTAL P R 6 500 K P.C. BOARD 043 - 984 + 108 V 4 AUDIO DRIVER 3 DEVIATION CALIBRATION DEVIATION INPUT (CONNECT TO TP2) - 108 V 💠 C 2 CCW 39 V IO PF ۷3 RIGHT GAIN 6EA8 108 V RIGHT AUDIO INPUT R 18 <u>₹</u> { NOTE 8 R 50 (6) 220 K 4 6EÅ8 RIGHT AUDIO OUTPUT 39 V <u> 후</u> ⑤ HORIZONTAL AMPLIFIER



C.R.T. CIRCUIT



REPLACEMENT PARTS

All parts not listed are common items obtainable from radio parts jobbers.

Replacement parts may be obtained when ordered by PART NUMBER from:

McIntosh Laboratory, Inc. Customer Service Department 2 Chambers Street Binghamton, New York 13903 (telephone 607-723-3512)

CAPACITORS

C4 Elect. 20/20μF 500/500V C5 Mylar .5μF 1000V 064- C6 Elect. 8μF 475V 066- C7 Mylar .22μF 200V 064- C9,10 Mylar .22μF 250V 064- C11 Mylar .1μF 200V 064- D10DES SR1,2 Se. rectifier 070- SR3,4 Se. rectifier 070- SR5,6 Se. rectifier 070- SR7 Se. rectifier 070- FUSES F1 Fuse 1A slo-blo 089- TRANSISTORS Q1,2 Si. NPN transistor 132- LAMPS NE2H Neon tube 058 TRANSFORMERS T1 Power transformer 159 POTENTIOMETERS R1 Signal strength cal. 134- R2 Deviation cal. 134- R3 Left gain 134- R4 Right gain 134- R5 Vertical position 134- R6 Horizontal position 134- R6 Horizontal position 134- R6 Horizontal position 134- R29 Astigmatism 134- R30 Intensity 134-	rt ber			
SOO/500V C5	-002			
C6 Elect. 8μF 475V 066- C7 Mylar .22μF 200V 064- C9,10 Mylar .22μF 250V 064- C11 Mylar .1μF 200V 064- D10DES SR1,2 Se. rectifier 070- SR3,4 Se. rectifier 070- SR5,6 Se. rectifier 070 FUSES F1 Fuse 1A slo-blo 089 TRANSISTORS Q1,2 Si. NPN transistor 132 LAMPS NE2H Neon tube 058 TRANSFORMERS T1 Power transformer 159 POTENTIOMETERS R1 Signal strength cal. 134- R2 Deviation cal. 134- R3 Left gain 134- R4 Right gain 134- R4 Right gain 134- R5 Vertical position 134- R6 Horizontal position 134- R6 Horizontal position 134- R6 Horizontal position 134- R6 Astigmatism 134- R89 Astigmatism 134- R80 Intensity 134-	- 025			
C7 Mylar .22µF 200V 064- C9,10 Mylar .22µF 250V 064- C11 Mylar .1µF 200V 064- D10DES SR1,2 Se. rectifier 070- SR3,4 Se. rectifier 070- SR5,6 Se. rectifier 070 FUSES F1 Fuse 1A slo-blo 089 TRANSISTORS Q1,2 Si. NPN transistor 132 LAMPS NE2H Neon tube 058 TRANSFORMERS T1 Power transformer 159 POTENTIOMETERS R1 Signal strength cal. 134- R2 Deviation cal. 134- R3 Left gain 134- R4 Right gain 134- R5 Vertical position 134- R6 Horizontal position 134- R6 Horizontal position 134- R6 Horizontal position 134- R6 Astigmatism 134- R89 Astigmatism 134- R80 Intensity 134-	-023			
C9,10 Mylar .22μF 250V 064- C11 Mylar .1μF 200V 064- D10DES SR1,2 Se. rectifier 070- SR3,4 Se. rectifier 070- SR5,6 Se. rectifier 070- SR7 Se. rectifier 070- FUSES F1 Fuse 1A slo-blo 089- TRANSISTORS Q1,2 Si. NPN transistor 132- LAMPS NE2H Neon tube 058- TRANSFORMERS T1 Power transformer 159- POTENTIOMETERS R1 Signal strength cal. 134- R2 Deviation cal. 134- R3 Left gain 134- R4 Right gain 134- R5 Vertical position 134- R6 Horizontal position 134- R6 Horizontal position 134- R6 Horizontal position 134- R6 Astigmatism 134- R89 Astigmatism 134- R80 Intensity 134-	-052			
DIODES	-013			
DIODES SR1,2 Se. rectifier O700 SR3,4 Se. rectifier O700 SR5,6 Se. rectifier O700 SR7 Se. rectifier O700 FUSES F1 Fuse 1A Slo-blo O890 TRANSISTORS O1,2 Si. NPN transistor 132 LAMPS NE2H Neon tube O580 TRANSFORMERS T1 Power transformer 1590 POTENTIOMETERS R1 Signal strength cal. 1340 R2 Deviation cal. 1340 R3 Left gain 1340 R4 Right gain 1340 R5 Vertical position 1340 R6 Horizontal position 1340 R6 Horizontal position 1340 R69 Astigmatism 1340 R69 Astigmatism 1340 R39 Astigmatism 1340 R39 Intensity 1340 R30 Intensity 1340 R30 Intensity 1340 R30 R30 Intensity 1340 R30 R	-043			
SR1,2 Se. rectifier 070 SR3,4 Se. rectifier 070 SR5,6 Se. rectifier 070 FUSES F1 Fuse 1A slo-blo 089 TRANSISTORS Q1,2 Si. NPN transistor 132 LAMPS NE2H Neon tube 058 TRANSFORMERS T1 Power transformer 159 POTENTIOMETERS R1 Signal strength cal. 134 R2 Deviation cal. 134 R3 Left gain 134 R4 Right gain 134 R5 Vertical position 134 R6 Horizontal position 134 R29 Astigmatism 134 R30 Intensity 134	-011			
SR3,4 Se. rectifier 070 SR5,6 Se. rectifier 070 SR7 Se. rectifier 070 FUSES F1 Fuse 1A slo-blo 089 TRANSISTORS Q1,2 Si. NPN transistor 132 LAMPS NE2H Neon tube 058 TRANSFORMERS T1 Power transformer 159 POTENTIOMETERS R1 Signal strength cal. 134 R2 Deviation cal. 134 R3 Left gain 134 R4 Right gain 134 R5 Vertical position 134 R6 Horizontal position 134 R29 Astigmatism 134 R30 Intensity 134				
SR5,6 Se. rectifier 070 SR7 Se. rectifier 070 FUSES F1 Fuse 1A slo-blo 089 TRANSISTORS Q1,2 Si. NPN transistor 132 LAMPS NE2H Neon tube 058 TRANSFORMERS T1 Power transformer 159 POTENTIOMETERS R1 Signal strength cal. 134 R2 Deviation cal. 134 R3 Left gain 134 R4 Right gain 134 R5 Vertical position 134 R6 Horizontal position 134 R6 Horizontal position 134 R69 Astigmatism 134 R30 Intensity 134	- 005			
FUSES F1 Fuse 1A slo-blo 089 TRANSISTORS Q1,2 Si. NPN transistor 132 LAMPS NE2H Neon tube 058 TRANSFORMERS T1 Power transformer 159 POTENTIOMETERS R1 Signal strength cal. 134 R2 Deviation cal. 134 R3 Left gain 134 R4 Right gain 134 R5 Vertical position 134 R6 Horizontal position 134 R6 Horizontal position 134 R79 Astigmatism 134 R80 Intensity 134	-005			
FUSES F1 Fuse 1A slo-blo 089 TRANSISTORS Q1,2 Si. NPN transistor 132 LAMPS NE2H Neon tube 058 TRANSFORMERS T1 Power transformer 159 POTENTIOMETERS R1 Signal strength cal. 134 R2 Deviation cal. 134 R3 Left gain 134 R4 Right gain 134 R5 Vertical position 134 R6 Horizontal position 134 R6 Horizontal position 134 R89 Astigmatism 134 R80 Intensity 134	-005			
### Fuse	-026			
TRANSISTORS Q1,2 Si. NPN transistor 132 LAMPS NE2H Neon tube 058 TRANSFORMERS T1 Power transformer 159 POTENTIOMETERS R1 Signal strength cal. 134 R2 Deviation cal. 134 R3 Left gain 134 R4 Right gain 134 R5 Vertical position 134 R6 Horizontal position 134 R6 Astigmatism 134 R80 Intensity 134				
Q1,2 Si. NPN transistor 132 LAMPS NE2H Neon tube 058 TRANSFORMERS T1 Power transformer 159 POTENTIOMETERS R1 Signal strength cal. 134 R2 Deviation cal. 134 R3 Left gain 134 R4 Right gain 134 R5 Vertical position 134 R6 Horizontal position 134 R6 Astigmatism 134 R80 Intensity 134	-001			
Q1,2 Si. NPN transistor 132 LAMPS NE2H Neon tube 058 TRANSFORMERS T1 Power transformer 159 POTENTIOMETERS R1 Signal strength cal. 134 R2 Deviation cal. 134 R3 Left gain 134 R4 Right gain 134 R5 Vertical position 134 R6 Horizontal position 134 R6 Astigmatism 134 R80 Intensity 134				
TRANSFORMERS TI Power transformer 159 POTENTIOMETERS R1 Signal strength cal. 134 R2 Deviation cal. 134 R3 Left gain 134 R4 Right gain 134 R5 Vertical position 134 R6 Horizontal position 134 R29 Astigmatism 134 R30 Intensity 134	- 057			
TRANSFORMERS T1 Power transformer 159 POTENTIOMETERS R1 Signal strength cal. 134 R2 Deviation cal. 134 R3 Left gain 134 R4 Right gain 134 R5 Vertical position 134 R6 Horizontal position 134 R29 Astigmatism 134 R30 Intensity 134				
POTENTIOMETERS R1 Signal strength cal. 134 R2 Deviation cal. 134 R3 Left gain 134 R4 Right gain 134 R5 Vertical position 134 R6 Horizontal position 134 R29 Astigmatism 134 R30 Intensity 134	-009			
POTENTIOMETERS R1 Signal strength cal. 134 R2 Deviation cal. 134 R3 Left gain 134 R4 Right gain 134 R5 Vertical position 134 R6 Horizontal position 134 R29 Astigmatism 134 R30 Intensity 134	TRANS FORMERS			
R1 Signal strength cal. 134 R2 Deviation cal. 134 R3 Left gain 134 R4 Right gain 134 R5 Vertical position 134 R6 Horizontal position 134 R29 Astigmatism 134 R30 Intensity 134	-068			
R2 Deviation cal. 134 R3 Left gain 134 R4 Right gain 134 R5 Vertical position 134 R6 Horizontal position 134 R29 Astigmatism 134 R30 Intensity 134				
R3 Left gain 134- R4 Right gain 134- R5 Vertical position 134- R6 Horizontal position 134- R29 Astigmatism 134- R30 Intensity 134-	-206			
R4 Right gain 134 R5 Vertical position 134 R6 Horizontal position 134 R29 Astigmatism 134 R30 Intensity 134	-206			
R5 Vertical position 134 R6 Horizontal position 134 R29 Astigmatism 134 R30 Intensity 134	- 206			
R6 Horizontal position 134 R29 Astigmatism 134 R30 Intensity 134	-206			
R29 Astigmatism 134 R30 Intensity 134	- 206			
R30 Intensity 134	-044			
,	-047			
R32 Focus 134	-041			
	-041			
NI 2 SCHEMATIC PART NO 038-462				

R45	Vertical audio position	134-206
R48	Audio gain	134-171
	RESISTORS	
R41	Wirewound 15k 10% 10W	139-040
R42	Wirewound 20k 10% 10W	139-018
	SWITCHES	
S1	Selector switch	146-100
S2	Power on-off	146-040
TUBES		
V1,2	6EA8	165-044
	6EA8	165-044
	3RPI (CRT)	165-028
V 5	6EA8	165-044
V7,8	OB2	165-027
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	FRONT PANEL & TRIM	
	Front panel	043-697
	Front panel end cap: right	018-132
	Front panel end cap: left	018-133
	Power knob	043-253
	Audio display knob	043-253
	Intensity knob	043-478
	Focus knob	043-478
	Vertical position knob	043-478
	Horizontal position knob	043-478
	Scope test knob	043-806
İ	MOUNTING SYSTEM	
	Shelf bracket: right	043-427
	Shelf bracket: left	043-428
	Mounting template #100	038-179
	Hardware package	043-458
	MISCELLANEOUS ITEMS	
	Fuseholder	178-001
	AC power cord	170-021
	Shipping carton	043-943
	Owners manual	038-142
	Audio cable	170-015
	100081987	-M0462